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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,714	04/18/2005		Jung-Keun Kim	12220-02USA	1458
35736 <b>JHK LAW</b>	7590	08/24/2007		EXAMINER	
P.O. BOX 1078				MORRIS, PATRICIA L	
LA CANADA	, CA 9101	12-1078		ART UNIT	PAPER NUMBER
		•		1625	
				MAIL DATE	DELIVERY MODE
			•	08/24/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/531,714	KIM ET AL.
Office Action Summary	Examiner	Art Unit
	Patricia L. Morris	1625
The MAILING DATE of this communication a	ppears on the cover sheet w	ith the correspondence address
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perions after the reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a and will apply and will expire SIX (6) MO ute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ Th	nis action is non-final.	
3) Since this application is in condition for allow		
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-5 is/are pending in the application	1.	
4a) Of the above claim(s) is/are withdown		
5) Claim(s) is/are allowed.	•	
6) Claim(s) is/are rejected.	:	
7) Claim(s) <u>5</u> is/are objected to.		
8) Claim(s) <u>1-4</u> are subject to restriction and/or	election requirement.	
Application Papers		,
9) The specification is objected to by the Exami	ner.	• • •
10) The drawing(s) filed on is/are: a) a	ccepted or b)☐ objected to	by the Examiner.
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the corr		
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form P10-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).
1. Certified copies of the priority docume	ents have been received.	
2. Certified copies of the priority docume		
3. Copies of the certified copies of the pro-		n received in this National Stage
application from the International Bure	•	A managed
* See the attached detailed Office action for a l	ist of the certified copies no	t received.
		·
Attachment(s)	_	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>		Summary (PTO-413) o(s)/Mail Date
3) Information Disclosure Statement(s) (PTO/SB/08)	5) D Notice of	Informal Patent Application
Paper No(s)/Mail Date	6)	·

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## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Group I, the instances wherein R<sup>1</sup> and R<sup>2</sup> represent non-heterocyclic groups.

Group II, the instances wherein R<sup>1</sup> and R<sup>2</sup> together form an an additional heterocycle.

Claim 5 is drawn to nonstatutory subject matter and hence, cannot be grouped at this time.

In the event that applicants amend the claim, it will be grouped accordingly.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Due to the numerous variables X, Y, R<sup>1</sup>, R<sup>2</sup>., and their widely divergent meanings, and the numerous methods of using, a precise listing of inventive groups cannot be made. Illustrative of different inventive concepts may be made by reference to the compounds in the Examples of the instant application, as for example:

the compounds of

- I. Example 1,
- II. Example 123
- III. Example 132, etc.,

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The claims herein lack unity of invention under PCT Rule 13.1 and 13.2 since the compounds defined in the claims lack a significant structural element qualifying as the special technical feature that defines a contribution over the prior art. The compounds claimed contain a furan ring which does not define a contribution over the prior art. The substituents on the structure vary extensively and when taken as a whole result in vastly different compounds. Accordingly, unity of invention is considered to be lacking and restriction of the invention in accordance with the rules of unity of invention is considered to be proper.

In the event of any election of either Groups I or II, applicants are required to elect a single compound.

Claims 1-4 will be examined to the extent readable on the elected compounds.

37 CFR 1.475(b) an international or a national stage application containing claims drawn to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combination of categories:

- (1) A product and a process specifically adapted for the manufacture of said product; or
- (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specifically designed for carrying out the said process; or
- (5) A product, a process specifically adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

(c) If an application contains claims to more or less than one of the combination of categories of inventions set forth in paragraph (b) of this section, unity of invention might not be present.

- (d) If multiple products, processes of manufacture, or uses are claimed, the first invention of the category first mentioned in the claims of the application and the first recited invention of each of the other categories relied thereto will be considered as the main invention in the claims.
- (e) The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claim or as alternatives within a single claim.

Applicant may file the divisional subject matter noted in divisional applications. If applicant wishes a generic expression of the elected invention the claims here need be amended to reflect that election.

This restriction requirement is being written as previous experience has indicated that with Foreign applicants and the inherent time delays, applicants' representative is better able to make an informed, correct, election of the invention applicants would wish to have prosecuted here if applicants are given the opportunity to see the restriction requirement laid out, and given the time to make an informed decision.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia L. Morris whose telephone number is (571) 272-0688. The examiner can normally be reached on Mondays through Fridays.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patricia L. Morris Primary Examiner

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plm August 20, 2007